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TITLE: Washing soiled laundry in domestic or industrial washing machine - using delivery means to deliver cationic ester surfactant to soiled laundry before establishing alkaline wash liquor environment

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PATENT-
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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 2303150 A	February 12, 1997	N/A	064	D06F 035/00C11D 001/62C11D 001
MX 9800274 A1	April 1, 1998	N/A	000	/62C11D 001/62C11D 001/62
WO 9703161 A1	January 30, 1997	E	071	
EP 843714 A1	May 27, 1998	E	000	
BR 9609600 A	May 4, 1999	N/A	000	

DESIGNATED-
STATES: BR CA MX US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
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CITED-DOCUMENTS: US 4239660; US 4260529 ; US 4370250 ; US 4969927

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
GB 2303150A	N/A	1995GB-0013991	July 8, 1995
MX 9800274A1	N/A	1998MX-0000274	January 8, 1998
WO 9703161A1	N/A	1996WO-US11282	July 3, 1996
EP 843714A1	N/A	1996EP-0923641	July 3, 1996
EP 843714A1	N/A	1996WO-US11282	July 3, 1996
EP 843714A1	Based on	WO 9703161	N/A
BR 9609600A	N/A	1996BR-0009600	July 3, 1996
BR 9609600A	N/A	1996WO-US11282	July 3, 1996
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ABSTRACTED-PUB-NO: GB 2303150A

BASIC-ABSTRACT:

Washing soiled laundry in a domestic industrial washing machine involves using a delivery means for dispersing a detergent compsn (I) directly to the drum of a washing machine before washing and enabling release of the compsn. to the wash liquor during the wash. (I) contains (in wt. %): (a) 0.1-90 cationic ester surfactant and (b) 1.5-95 alkalinity system comprising alkaline salts comprising alkali metal or alkaline earth metal carbonate, bicarbonate, hydroxide silicate, including crystalline layered silicate and/or their salts. The delivery means enables delivery of (a) to the soiled laundry before establishing an alkaline wash liquor environment around the laundry. Also claimed is a method of washing soiled laundry including a pretreatment step which comprises applying a detergent compsn. (II) directly to the soiled laundry before washing. (II) contains (in wt. %): (i) 1-90 cationic ester surfactant and (ii) 10-99 detergent components comprising additional surfactants, bleaches, builders, alkalinity sources, organic polymeric cpds., enzymes, suds suppressors, lime soap detergents, soil suspension and anti-redeposition agents or corrosion inhibitors. Pretreatment allows delivery of (i) to the soiled laundry before forming an alkaline wash liquor environment around the laundry.

ADVANTAGE - The soln. stability of the cationic ester surfactant is not reduced, so that stain removal performance is improved. 0.25 DETPMP, 0.3 HEDP, 0.26 protease 0.1 amylase, 0.3 copolymer of 1:4 maleic (acrylic acid (mol.wt. = 70000), 0.2 CMC, 15 ppm photoactivated bleach (ppm), 0.09 disodium 4,4'-bis(2-sulphostyryl)biphenyl, 0.3 perfume, 0.5 silicone antifoam and other ingredients to 100. The compsn. was used in laundry washing with a Miele 820 automatic washing machine and the 40 deg. C short cycle programme selected. 100g of the compsn. was placed in a granulate dispensing device which was placed on top of the wash load in the drum of the machine. The load comprised 2.4 kg of 60/40 mixt. of lightly soiled cotton, polycotton and polyester fabrics. Good washing performance was obtd..

CHOSEN-DRAWING: Dwg.0/0

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EPI-CODES: X27-D01A;